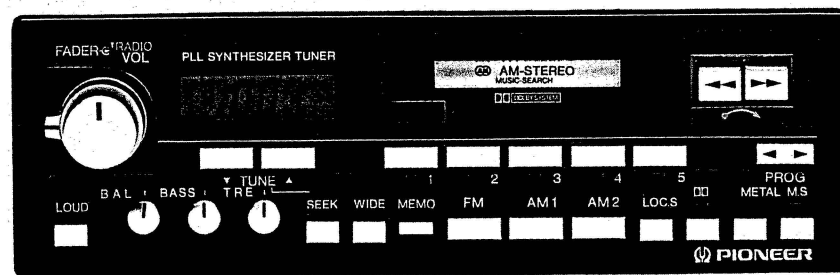


CASSETTE CAR STEREO  
WITH FM/AM ELECTRONIC TUNER

## OWNER'S MANUAL

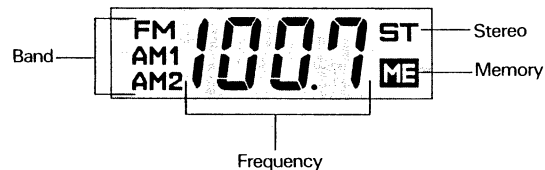
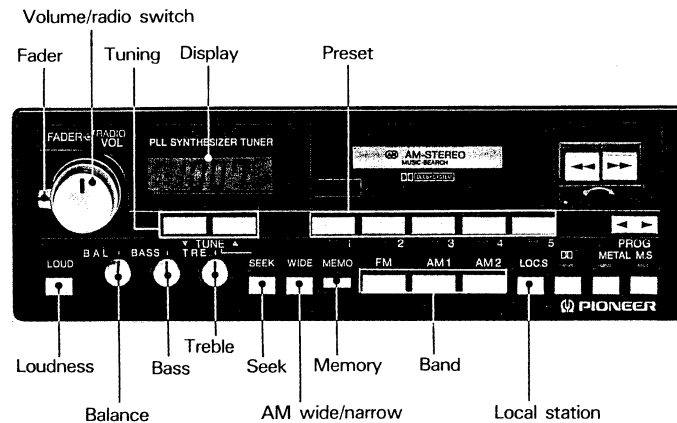
Thank you for purchasing this PIONEER product.  
Before attempting operation, be sure to read this  
manual.



 **PIONEER®**

**KE-8003ZH**

## Using the Radio



### • Before attempting operation...

- Reduce the volume by turning the volume control knob to the left.
  - Set the fader control to the left horizontal.
1. Press the radio switch to turn on power and display the frequency.
  2. Press the band switch to select the band.
  3. Press the seek button to put it in the ON position.
  4. Press either the left or right side of the tuning button to tune in the desired frequency. (Pressing the right side will increase the frequency.)
  5. Adjust the volume and balance.
  6. Adjust the tone.
- When adjusting balance, bass and treble, press the corresponding button to put it in the position. Once adjustments are complete, press the button again to put it in the .

### • To enter a frequency into the preset memory...

7. Press the memory button and the memory indicator will be displayed. (Approximately 5 seconds)
- Within 5 seconds, press one of the preset buttons (1—5) to enter the frequency into the memory. (At this time the indicator of below the button pressed will illuminate.) Five FM frequencies, five AM1 frequencies and five AM2 frequencies can be entered.

# Specifications

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## General

Power source ..... 14.4 V DC (10.8 — 15.6 V allowable)  
Grounding system ..... Negative type  
Max. current consumption ..... 3 A  
Dimensions (chassis) ..... 180(W) × 50(H) × 150(D) mm  
(front face) ..... 189(W) × 60(H) × 16(D) mm  
Weight ..... 1.7 kg

## Amplifier

Maximum power output ..... 6.5 W × 4  
Continuous power output ..... 4.5 W × 4 (1% dist. at 1 kHz)  
Load impedance ..... 4 Ω (4 — 8 Ω allowable)  
Tone controls (bass) ..... ± 10 dB (100 Hz)  
(treble) ..... ± 10 dB (10 kHz)  
Loudness contour  
... +12 dB (100 Hz), +4 dB (10 kHz) (volume: — 30 dB)

## Tape player

Tape ..... Compact cassette tape (C-30 — C-90)  
Tape speed ..... 4.8 cm/sec.  
Fast forward/rewind time ..... Approx. 100 sec. for C-60  
Wow & flutter ..... 0.13% (WRMS)  
Frequency response ..... Metal: 50 — 16,000 Hz (± 3 dB)  
Normal: 50 — 12,000 Hz (± 3 dB)  
Stereo separation ..... 45 dB  
Signal-to-noise ratio ... Dolby NR IN: 60 dB (IEC-A network)  
Dolby NR OUT: 52 dB (IEC-A network)

## FM tuner

Frequency range ..... 87.5 — 108 MHz  
Usable sensitivity ..... 12 dBf (1.1 μV/75 Ω, mono)  
50 dB quieting sensitivity ..... 17 dBf (1.9 μV/75 Ω, mono)  
Signal-to-noise ratio ..... 70 dB (IEC-A network)  
Distortion ..... 0.3% (at 65 dBf, 1 kHz, stereo)  
Frequency response ..... 50 — 12,000 Hz (± 3 dB)  
Stereo separation ..... 40 dB (at 65 dBf, 1 kHz)

## AM tuner

Frequency range ..... 522 — 1,629 kHz  
Usable sensitivity ..... 18 μV (25 dB) (S/N: 20 dB)  
Selectivity ..... 30 dB (± 9 kHz)  
Signal-to-noise ratio ..... 50 dB (IEC-A network)  
Distortion ..... 1% (at 74 dB, 1 kHz, stereo)  
Stereo separation ..... 30 dB (at 74 dB 1 kHz)

## Note:

Specifications and the design are subject to possible modification without notice due to improvements.

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- **Fast Forward/Rewind**

Since the transport can be in either direction, both the left and right high-speed tape transport buttons can be regarded as fast forward/rewind buttons.

For fast forward, press the high-speed tape transport button that corresponds to the direction that is shown by the direction indicator. When the end of the tape is reached, playback will automatically begin from the opposite side of the tape (Auto-reverse). For rewind, press the button that is opposite that of the direction shown by the direction indicator. When the end of the tape is reached, playback will automatically begin from the beginning of the same side of the tape (Auto-replay).

Fast forward and rewind can be terminated by pressing the respective opposite high-speed tape transport button,

- **Direction Change Button**

This button is used to switch from one side of the tape to the other (from Side A to Side B or vice versa).

- **Tape Select Switch**

This switch is used to switch to the proper mode for the tape being used and should be depressed when using chrome or metal tapes.

- **Dolby NR Switch**

Press when playing a tape recorded with Dolby NR.

- Noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

## Music Search

The music search function is convenient for automatic playback from the beginning of the selection being played or the beginning of the next selection.

- **Returning to the beginning of selection A**

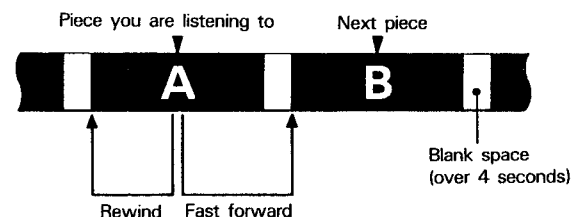
Press the music search button and then the high-speed tape transport button for the direction opposite that shown by the direction indicator. Playback will automatically start from the beginning of selection A.

- **Moving from selection A to selection B**

Press the music search button and then the high-speed tape transport button that corresponds to the direction shown by the direction indicator. Playback will automatically start from the beginning of selection B.

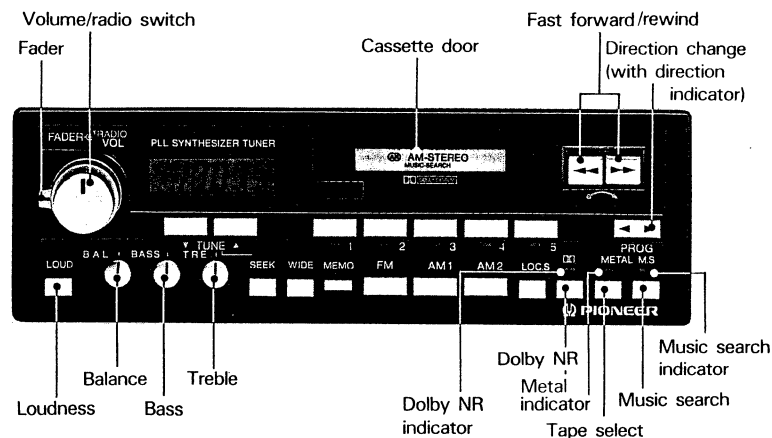
To enable regular fast forward/rewind operations, press the music search button again to turn the function OFF. The following errors will cause the music search function to operate improperly, even though the unit is not malfunctioning.

- Unrecorded "blank" portions between selections is less than 4 seconds → the blank portion cannot be detected by the unit.
- Pauses in recorded conversations are longer than 4 seconds → the unit reads these as blanks between selections.
- Portions are recorded at very low volume for more than 4 seconds → the unit reads these as blanks between selections.



# Using the Tape Deck

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- **Before attempting operation...**
  - Reduce the volume by turning the volume control knob to the left.
  - Set the fader control to the left horizontal.
1. Insert a tape into the deck to turn the power on and automatically begin playback. Even if the radio is on, the unit will automatically switch to and begin tape playback.
  2. Adjust the volume and balance.
  3. Adjust the tone.
  4. When tape playback reaches the end of the tape, playback will automatically switch from the side being played to the opposite side (ie. Side A to Side B or vice versa) (Auto-reverse). To eject the tape during playback, simultaneously press the fast forward and rewind buttons.
- Do not try to eject the cassette immediately after insertion, as it will cause malfunction. Wait a few seconds.

## Care and Maintenance

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- Do not use tapes longer than C-90-type (90 min.) cassettes. Longer tapes can interfere with tape transport.
- If the playback head becomes dirty, sound quality will suffer. Periodically (once or twice a month) clean the heads with a cotton swab soaked with alcohol. (Fig. 1)
- Storing cassettes in areas directly exposed to sunlight or high temperatures can distort them and subsequently interfere with tape transport. (Fig. 2)
- Store unused tapes in a tape case where there is no danger of them becoming loose or being exposed to dust.
- If the car's battery is disconnected for any reason the preset memory will be erased and must be reprogrammed after reconnection of the battery.
- When replacing the car stereo fuse, be sure to use a 4 A fuse. Also, in case of a malfunction (fuse continues to blow even after replacing), contact your dealer or the nearest authorized PIONEER Service Station. (Fig. 3)

- **After Service**

In the event this unit does not function properly, contact your dealer or the nearest authorized PIONEER Service Center.

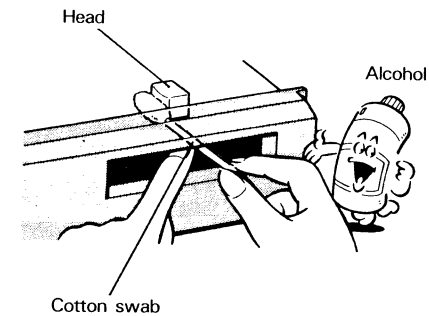


Fig. 1

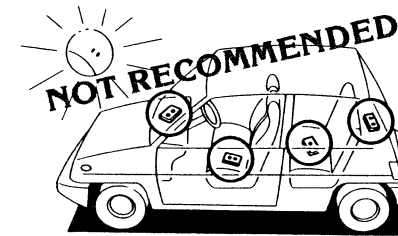


Fig. 2

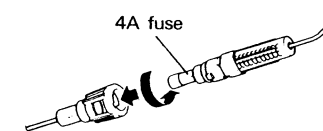


Fig. 3

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- **AM Wide/Narrow Switch**

This switch is used to select either wide (wide reproduction band) or narrow (narrow reproduction band), and is usually depressed and left in the wide position. In this mode, the high frequency range of the reproduction band is extended, and AM broadcasts can be reproduced without a loss of sound quality. When excessive noise or interference occurs, releasing this switch converts to the narrow mode.

- **Local Station Switch**

Pressing this switch lowers the seek tuning reception sensitivity so that only stronger signals can be tuned in. This feature is convenient when driving through areas that have numerous radio stations.

- **Fader Control**

This control is used to adjust the balance between the front and rear speakers when using a 4-speaker system. Turning the control upwards decreases the volume of the rear speakers, while turning it downwards decreases the volume of the front speakers.

- **Loudness Switch**

When playing back a tape or listening to the radio at low volume, the low and high tones are emphasized and more clearly heard by pressing this switch.

## **Seek Tuning**

Press the seek button, and tuning to the next higher or lower broadcast on the band can be accomplished automatically by simply pressing either the left or right side of the tuning button. FM frequencies change in 0.1 MHz steps while those in the AM band change in 9 kHz steps.

## **Preset Tuning**

Pressing the preset button instantly tunes in the frequency programmed in the memory for that button.

## **Manual Tuning**

When manual tuning is employed, FM frequencies change in 0.1 MHz steps while AM frequencies change in 9 kHz steps.

1. Press the seek button to put it in the OFF position.
2. Change the frequency by pressing either the left or right side of the tuning button. Pressing the button once will change the frequency one step (see above). Continuously depressing either side of the button will successively change the frequency at the prescribed step.

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